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Thank you for your submission.

Test executed by user: dongz

Resubmit test

Testing base protocol.

BEGINNING SOCKET TEST: 2017/12/18 03:35:48am

Connecting to host: 47.94.4.113 port: 9999

Testing connecting to server.

Socket created.

Attempting to connect to 47.94.4.113:9999

Connection Successful for host 47.94.4.113 on port 9999.

Sent HELO Message to Server:

HELO BASE TEST

Recieved Message from server:

HELO BASE_TEST

IP:172. 17. 171. 185

Port:9999

StudentID:17313074

Message has 5 lines (we expect at least 4).

First String Correct: HELO BASE TEST

Second string is correct form IP:XXXX.

Second string does not include server ip address:47.94.4.113

IP string is:

172. 17. 171. 185

Testing connecting to server.

Socket created.

Attempting to connect to 47.94.4.113:9999

Connection Successful for host 47.94.4.113 on port 9999.

Testing joining server by client1. (Socket Resource id #7)

Send Succeeded. Testing response.

Recieved Message from server: JOINED CHATROOM: room1

First string is correct form JOINED CHATROOM:XXXX.

Chatroom name is correct: room1

Second string is correct form SERVER IP:XXXX.

IP string is valid form: 172.17.171.185 Third string is correct form PORT:XXXX.

Port string is valid form: 9999

Third string is correct form ROOM REF:XXXX.

room ref string is valid form: 0

Third string is correct form JOIN ID:XXXX.

join_id string is valid form: 0
Server Join Test Success

Testing join message regarding client1. (Socket Resource id #7)

Recieved Message from server: CHAT: 0

Room Ref is correct: 0

Clientname is correct: client1

Message form is correct: client1 has joined this chatroom. Full message recieved:

client1 has joined this chatroom.

Server join message recieved successfully.

Testing Leaving

Testing leaving on chatroom by client1. (Socket Resource id #7)

Sending Message to Server:

LEAVE_CHATROOM: 0 JOIN_ID: 0 CLIENT NAME: client1

Send succeeded.

Recieved Message from server:

LEFT_CHATROOM: 0

Room Ref is correct: 0
JOIN ID is correct: 0
Leave Test Successful.

Testing for receipt of leaving message regarding client1 (Socket Resource id #7)

Recieved Message from server:

CHAT: 0

Room Ref is correct: 0

Client name has correct form: client1

Full message recieved:

client1 has left this chatroom.

Receipt of message successful.

Test join multiple rooms

Testing joining server by client1. (Socket Resource id #7)

Send Succeeded. Testing response.

Recieved Message from server: JOINED CHATROOM: room1

First string is correct form JOINED CHATROOM:XXXX.

Chatroom name is correct: room1

Second string is correct form SERVER IP:XXXX.

IP string is valid form: 172.17.171.185 Third string is correct form PORT:XXXX.

Port string is valid form: 9999

Third string is correct form ROOM_REF:XXXX.

room ref string is valid form: 0

Third string is correct form JOIN_ID:XXXX.

join_id string is valid form: 1
Server Join Test Success

Testing join message regarding client1. (Socket Resource id #7)

Recieved Message from server: CHAT: 0

Room Ref is correct: 0

Clientname is correct: client1

Message form is correct: client1 has joined this chatroom. Full message recieved:

client1 has joined this chatroom.

Server join message recieved successfully.

Testing joining server by client1. (Socket Resource id #7)

Send Succeeded. Testing response.

Recieved Message from server: JOINED CHATROOM: room2

First string is correct form JOINED CHATROOM:XXXX.

Chatroom name is correct: room2

Second string is correct form SERVER_IP:XXXX.

IP string is valid form: 172.17.171.185 Third string is correct form PORT:XXXX.

Port string is valid form: 9999

Third string is correct form ROOM_REF:XXXX. room_ref string is valid form: 1 Third string is correct form JOIN_ID:XXXX. join_id string is valid form: 1 Server Join Test Success
Testing join message regarding client1. (Socket Resource id #7) Recieved Message from server: CHAT: 1 Room Ref is correct: 1 Clientname is correct: client1 Message form is correct: client1 has joined this chatroom. Full message recieved: Client1 has joined this chatroom.
Server join message recieved successfully.
Test leaving multiple chatrooms
Testing leaving on chatroom by client1. (Socket Resource id #7) Sending Message to Server: [LEAVE_CHATROOM: 0]
JOIN_ID: 1 CLIENT_NAME: client1
Send succeeded.
Recieved Message from server:
LEFT_CHATROOM: 0
Room Ref is correct: 0 JOIN ID is correct: 1
Leave Test Successful.
Testing for receipt of leaving message regarding client1 (Socket Resource id #7) Recieved Message from server:
CHAT: 0
Room Ref is correct: 0
Client name has correct form: client1 Full message recieved:
client1 has left this chatroom.
Receipt of message successful

Testing leaving on chatroom by client1. (Socket Resource id #7) Sending Message to Server:

LEAVE_CHATROOM: 1

JOIN_ID: 1

CLIENT_NAME: client1

Send succeeded.

Recieved Message from server:

LEFT_CHATROOM: 1

Room Ref is correct: 1 JOIN ID is correct: 1 **Leave Test Successful.**

Testing for receipt of leaving message regarding client1 (Socket Resource id #7)
Recieved Message from server:

Room Ref is correct: 1

Client name has correct form: client1

Full message recieved:

client1 has left this chatroom.

Receipt of message successful.

Testing multiple clients with single room

Testing joining server by client1. (Socket Resource id #7)

Send Succeeded. Testing response.

Recieved Message from server: JOINED_CHATROOM: room1

First string is correct form JOINED CHATROOM:XXXX.

Chatroom name is correct: room1

Second string is correct form SERVER IP:XXXX.

IP string is valid form: 172.17.171.185 Third string is correct form PORT:XXXX.

Port string is valid form: 9999

Third string is correct form ROOM REF:XXXX.

room ref string is valid form: 0

Third string is correct form JOIN ID:XXXX.

join_id string is valid form: 2
Server Join Test Success

Testing join message regarding client1. (Socket Resource id #7)

Recieved Message from server: CHAT: 0

Room Ref is correct: 0

Clientname is correct: client1

Message form is correct: client1 has joined this chatroom. Full message recieved:

client1 has joined this chatroom.

Server join message recieved successfully.

Creating second client connection

Testing connecting to server.

Socket created.

Attempting to connect to 47.94.4.113:9999

Connection Successful for host 47.94.4.113 on port 9999.

Testing joining server by client2. (Socket Resource id #8)

Send Succeeded. Testing response.

Recieved Message from server: JOINED CHATROOM: room1

First string is correct form JOINED CHATROOM:XXXX.

Chatroom name is correct: room1

Second string is correct form SERVER IP:XXXX.

IP string is valid form: 172.17.171.185 Third string is correct form PORT:XXXX.

Port string is valid form: 9999

Third string is correct form ROOM_REF:XXXX.

room ref string is valid form: 0

Third string is correct form JOIN ID:XXXX.

join_id string is valid form: 3
Server Join Test Success

Testing join message regarding client2. (Socket Resource id #7)

Recieved Message from server: CHAT: 0

Room Ref is correct: 0

Clientname is correct: client2

Message form is correct: client2 has joined this chatroom. Full message recieved:

client2 has joined this chatroom.

Server join message recieved successfully.

Testing join message regarding client2. (Socket Resource id #8)

Recieved Message from server: CHAT: 0

Room Ref is correct: 0

Clientname is correct: client2

Message form is correct: client2 has joined this chatroom. Full message recieved:

client2 has joined this chatroom.

Server join message recieved successfully.

Test multiple clients leaving one room

Testing leaving on chatroom by client2. (Socket Resource id #8) Sending Message to Server: LEAVE CHATROOM: 0 JOIN ID: 3 CLIENT NAME: client2 Send succeeded. Recieved Message from server: LEFT_CHATROOM: 0 Room Ref is correct: 0 JOIN ID is correct: 3 Leave Test Successful. Testing for receipt of leaving message regarding client2 (Socket Resource id #8) Recieved Message from server: Room Ref is correct: 0 Client name has correct form: client2 Full message recieved: client2 has left this chatroom Receipt of message successful. Testing for receipt of leaving message regarding client2 (Socket Resource id #7) Recieved Message from server: CHAT: 0 Room Ref is correct: 0 Client name has correct form: client2 Full message recieved: client2 has left this chatroom. Receipt of message successful. Testing leaving on chatroom by client1. (Socket Resource id #7) Sending Message to Server: LEAVE CHATROOM: 0 JOIN ID: 2 CLIENT NAME: client1 Send succeeded.

Recieved Message from server:

LEFT_CHATROOM: 0

Room Ref is correct: 0 JOIN ID is correct: 2 **Leave Test Successful.**

Testing for receipt of leaving message regarding client1 (Socket Resource id #7)

Recieved Message from server:

CHAT: (

Room Ref is correct: 0

Client name has correct form: client1

Full message recieved:

client1 has left this chatroom.

Receipt of message successful.

Testing multiple clients with multiple rooms

Testing joining server by client1. (Socket Resource id #7)

Send Succeeded. Testing response.

Recieved Message from server: JOINED CHATROOM: room1

First string is correct form JOINED CHATROOM:XXXX.

Chatroom name is correct: room1

Second string is correct form SERVER_IP:XXXX.

IP string is valid form: 172.17.171.185 Third string is correct form PORT:XXXX.

Port string is valid form: 9999

Third string is correct form ROOM REF:XXXX.

room ref string is valid form: 0

Third string is correct form JOIN ID:XXXX.

join_id string is valid form: 4
Server Join Test Success

Testing join message regarding client1. (Socket Resource id #7)

Recieved Message from server: CHAT: 0

Room Ref is correct: 0

Clientname is correct: client1

Message form is correct: client1 has joined this chatroom. Full message recieved:

client1 has joined this chatroom.

Server join message recieved successfully.

Testing joining server by client2. (Socket Resource id #8)

Send Succeeded. Testing response.

Recieved Message from server: JOINED CHATROOM: room1

First string is correct form JOINED CHATROOM:XXXX.

Chatroom name is correct: room1

Second string is correct form SERVER IP:XXXX.

IP string is valid form: 172.17.171.185 Third string is correct form PORT:XXXX.

Port string is valid form: 9999

Third string is correct form ROOM REF:XXXX.

room ref string is valid form: 0

Third string is correct form JOIN ID:XXXX.

join_id string is valid form: 5
Server Join Test Success

Testing join message regarding client2. (Socket Resource id #7)

Recieved Message from server: CHAT: 0

Room Ref is correct: 0 Clientname is correct: client2

Message form is correct: client2 has joined this chatroom. Full message recieved:

client2 has joined this chatroom.

Server join message recieved successfully.

Testing join message regarding client2. (Socket Resource id #8)

Recieved Message from server: CHAT: 0

Room Ref is correct: 0

Clientname is correct: client2

Message form is correct: client2 has joined this chatroom. Full message recieved:

client2 has joined this chatroom.

Server join message recieved successfully.

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Creating third client connection

Testing connecting to server.

Socket created.

Attempting to connect to 47.94.4.113:9999

Connection Successful for host 47.94.4.113 on port 9999.

Testing joining server by client3. (Socket Resource id #9)

Send Succeeded. Testing response.

Recieved Message from server: JOINED CHATROOM: room1

First string is correct form JOINED CHATROOM:XXXX.

Chatroom name is correct: room1

Second string is correct form SERVER IP:XXXX.

IP string is valid form: 172.17.171.185 Third string is correct form PORT:XXXX.

Port string is valid form: 9999

Third string is correct form ROOM REF:XXXX.

room ref string is valid form: 0

Third string is correct form JOIN ID:XXXX.

join_id string is valid form: 6
Server Join Test Success

Testing join message regarding client3. (Socket Resource id #7)

Recieved Message from server: CHAT: 0

Room Ref is correct: 0

Clientname is correct: client3

Message form is correct: client3 has joined this chatroom. Full message recieved:

client3 has joined this chatroom.

Server join message recieved successfully.

Testing join message regarding client3. (Socket Resource id #8)

Recieved Message from server: CHAT: 0

Room Ref is correct: 0

Clientname is correct: client3

Message form is correct: client3 has joined this chatroom. Full message recieved:

client3 has joined this chatroom.

Server join message recieved successfully.

Testing join message regarding client3. (Socket Resource id #9)

Recieved Message from server: CHAT: 0

Room Ref is correct: 0

Clientname is correct: client3

Message form is correct: client3 has joined this chatroom. Full message recieved:

client3 has joined this chatroom.

Server join message recieved successfully.

Testing joining server by client1. (Socket Resource id #7)

Send Succeeded. Testing response.

Recieved Message from server: JOINED CHATROOM: room2

First string is correct form JOINED CHATROOM:XXXX.

Chatroom name is correct: room2

Second string is correct form SERVER IP:XXXX.

IP string is valid form: 172.17.171.185 Third string is correct form PORT:XXXX.

Port string is valid form: 9999

Third string is correct form ROOM REF:XXXX.

room ref string is valid form: 1

Third string is correct form JOIN ID:XXXX.

join_id string is valid form: 4
Server Join Test Success

Testing join message regarding client1. (Socket Resource id #7)

Recieved Message from server: CHAT: 1

Room Ref is correct: 1

Clientname is correct: client1

Message form is correct: client1 has joined this chatroom. Full message recieved:

client1 has joined this chatroom.

Server join message recieved successfully.

Testing joining server by client3. (Socket Resource id #9)

Send Succeeded. Testing response.

Recieved Message from server: JOINED CHATROOM: room2

First string is correct form JOINED CHATROOM:XXXX.

Chatroom name is correct: room2

Second string is correct form SERVER IP:XXXX.

IP string is valid form: 172.17.171.185 Third string is correct form PORT:XXXX.

Port string is valid form: 9999

Third string is correct form ROOM_REF:XXXX.

room ref string is valid form: 1

Third string is correct form JOIN ID:XXXX.

join_id string is valid form: 6
Server Join Test Success

Testing join message regarding client3. (Socket Resource id #7)

Recieved Message from server: CHAT: 1

Room Ref is correct: 1

Clientname is correct: client3

Message form is correct: client3 has joined this chatroom. Full message recieved:

client3 has joined this chatroom.

Server join message recieved successfully.

Testing join message regarding client3. (Socket Resource id #9)

Recieved Message from server: CHAT: 1

Room Ref is correct: 1

Clientname is correct: client3

Message form is correct: client3 has joined this chatroom. Full message recieved:

client3 has joined this chatroom.

Server join message recieved successfully.

Creating fourth client connection

Testing connecting to server.

Socket created.

Attempting to connect to 47.94.4.113:9999

Connection Successful for host 47.94.4.113 on port 9999.

Testing joining server by client4. (Socket Resource id #10)

Send Succeeded. Testing response.

Recieved Message from server: JOINED_CHATROOM: room2

First string is correct form JOINED CHATROOM:XXXX.

Chatroom name is correct: room2

Second string is correct form SERVER IP:XXXX.

IP string is valid form: 172.17.171.185 Third string is correct form PORT:XXXX.

Port string is valid form: 9999

Third string is correct form ROOM REF:XXXX.

room ref string is valid form: 1

Third string is correct form JOIN ID:XXXX.

join_id string is valid form: 7
Server Join Test Success

Testing join message regarding client4. (Socket Resource id #7)

Recieved Message from server: CHAT: 1

Room Ref is correct: 1

Clientname is correct: client4

Message form is correct: client4 has joined this chatroom. Full message recieved:

client4 has joined this chatroom.

Server join message recieved successfully.

Testing join message regarding client4. (Socket Resource id #9)

Recieved Message from server: CHAT: 1

Room Ref is correct: 1

Clientname is correct: client4

Message form is correct: client4 has joined this chatroom. Full message recieved:

client4 has joined this chatroom.

Server join message recieved successfully.

Testing join message regarding client4. (Socket Resource id #10)

Recieved Message from server: CHAT: 1

Room Ref is correct: 1

Clientname is correct: client4

Message form is correct: client4 has joined this chatroom. Full message recieved:

client4 has joined this chatroom.

Server join message recieved successfully.

Testing Messaging

Testing the sending of a message from client1Sending Message

CHAT: 0 JOIN_ID: 4

CLIENT_NAME: client1

MESSAGE: hello world from client 1

Send Succeeded.

Testing for receipt of message from client1. (Socket Resource id #7)

Recieved Message from server: CHAT: 0

Room Ref is correct: 0

clientname is correct: client1 Message content is correct:

hello world from client 1

Message receipt successful

Testing for receipt of message from client1. (Socket Resource id #8)

Recieved Message from server: CHAT: 0

Room Ref is correct: 0

clientname is correct: client1 Message content is correct:

hello world from client 1

Message receipt successful

Testing for receipt of message from client1. (Socket Resource id #9)

Recieved Message from server: CHAT: 0

Room Ref is correct: 0

clientname is correct: client1 Message content is correct:

hello world from client 1

Message receipt successful

Testing for no receipt of message from client1. (Socket Resource id #10) Nothing to read on Resource id #10 socket. This is correct.

Testing the sending of a message from client2

Sending Message

CHAT: 0 JOIN_ID: 4 CLIENT_NAME: client2

MESSAGE: hello world from client 2

Send Succeeded.

Testing for receipt of message from client2. (Socket Resource id #7)

Recieved Message from server: CHAT: 0

Room Ref is correct: 0

clientname is correct: client2 Message content is correct:

hello world from client 2

Message receipt successful

Testing for receipt of message from client2. (Socket Resource id #8)

Recieved Message from server: CHAT: 0

Room Ref is correct: 0

clientname is correct: client2 Message content is correct:

hello world from client 2

Message receipt successful

Testing for receipt of message from client2. (Socket Resource id #9)

Recieved Message from server: CHAT: 0

Room Ref is correct: 0

clientname is correct: client2 Message content is correct:

hello world from client 2

Message receipt successful

Testing for no receipt of message from client2. (Socket Resource id #10) Nothing to read on Resource id #10 socket. This is correct.

Testing the sending of a message from client3Sending Message

CHAT: 0 JOIN_ID: 6

CLIENT_NAME: client3

MESSAGE: hello world from client 3

Send Succeeded.

Testing for receipt of message from client3. (Socket Resource id #7)

Recieved Message from server: CHAT: 0

Room Ref is correct: 0

clientname is correct: client3 Message content is correct:

hello world from client 3

Message receipt successful

Testing for receipt of message from client3. (Socket Resource id #8)

Recieved Message from server: CHAT: 0

Room Ref is correct: 0

clientname is correct: client3 Message content is correct:

hello world from client 3

Message receipt successful

Testing for receipt of message from client3. (Socket Resource id #9)

Recieved Message from server: CHAT: 0

Room Ref is correct: 0

clientname is correct: client3 Message content is correct:

hello world from client 3

Message receipt successful

Testing for no receipt of message from client3. (Socket Resource id #10) Nothing to read on Resource id #10 socket. This is correct.

Testing the sending of a message from client3

Sending Message

CHAT: 1 JOIN_ID: 6

CLIENT_NAME: client3

MESSAGE: hello world from client 3

Send Succeeded.

Testing for receipt of message from client3. (Socket Resource id #7)

Recieved Message from server: CHAT: 1

Room Ref is correct: 1

clientname is correct: client3 Message content is correct: hello world from client 3

Message receipt successful

Testing for receipt of message from client3. (Socket Resource id #9)

Recieved Message from server: CHAT: 1

Room Ref is correct: 1

clientname is correct: client3 Message content is correct:

hello world from client 3

Message receipt successful

Testing for receipt of message from client3. (Socket Resource id #10)

Recieved Message from server: CHAT: 1

Room Ref is correct: 1

clientname is correct: client3 Message content is correct:

hello world from client 3

Message receipt successful

Testing for no receipt of message from client3. (Socket Resource id #8) Nothing to read on Resource id #8 socket. This is correct.

Testing Disconnections

Testing sending message to server by client1. (Socket Resource id #7) Sending Message to Server:

DISCONNECT: 0
PORT: 0

CLIENT_NAME: client1

Send Succeeded.

Testing for receipt of disconnection message regarding client1. (Socket Resource id #7) ERROR: Server response is empty: Connection reset by peer

Sending Message to server:

KILL SERVICE

Succeeded.

Your server should have shutdown...we will now test.

Host socket disconnected as expected.

Tests Complete

All tests passed

Grade: 74 = round((50 / 75) * 20 + (1275 / 1755) * 70 + (25 / 25) * 10)